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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/407,177	09/28/1999	BRYAN KOK ANN NGOI	032501-006	2405
2.007	21839 7590 03/28/2002 BURNS DOANE SWECKER & MATHIS L L P		EXAMINER	
POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404			LEE, HWA S	
	,		ART UNIT	PAPER NUMBER
			2877	
			DATE MAILED: 03/28/2002	2

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
•	09/407,177	NGOI ET AL.	
4 · · · · · · · · · · · · · · · · · · ·	Examiner	Art Unit	
Office Action Summary		2877	
The MAILING DATE of this communication ap	nears on the cover sheet	with the correspondence	address
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Period for Reply	Y IS SET TO EXPIRE	MONTH(2) PROM	
 THE MAILING DATE of the provisions of 37 CFR 1 Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a relif to Provide the period for reply is specified above, the maximum statutory perions for the period for reply will, by state and the period for reply will, by st	ply within the statutory minimum of d will apply and will expire SIX (6) te, cause the application to becor ling date of this communication, en	of thirty (30) days will be considered to MONTHS from the mailing date of the control of the con	imely. is communication.
Status 1) Responsive to communication(s) filed on 2 2 2 2 2 2 3 3 4 3 4 5 5 6 7 7 7 7 7 7 7 7 7	<u>8 September 1999</u> .		
1) Responsive to continuous (2)	This action is non-final.		to the merits is
2a) This action is FINAL. 3) Since this application is in condition for allocation in accordance with the practice under the closed in accordance with the closed in accordance with the practice under the closed in accordance with the practice under the closed in accordance with the closed in accordan		al matters, prosecution as S. C.D. 11, 453 O.G. 213.	to the mean
Disposition of Claims 4) ○ Claim(s) 1-30 is/are pending in the application is/are with	tion.		
4) Claim(s) 1-30 is/are pending in the apparent 4a) Of the above claim(s) is/are with	drawn from consideratio	n.	
4a) Of the above claim(s)			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-30</u> is/are rejected.			
7) Claim(s) is/are objected to.	nd/or election requireme	ent.	
7) Claim(s) is/are objected to: 8) Claim(s) are subject to restriction a	• • • • •		
Application Papers	-!		
9) The specification is objected to by the Exa 10) The drawing(s) filed on is/are: a)	accepted or b) objected	to by the Examiner.	85(a)
10) The drawing(s) filed on is/are: a) Applicant may not request that any objection	n to the drawing(s) be held	in abeyance. See 37 CFR	Evaminer.
			CXAITIIII
11) The proposed drawing correction filed on If approved, corrected drawings are required	d in reply to this Office acti	on.	
12) The oath or declaration is objected to by t	he Examiner.		
12) The oath or declaration is objected to any			
Priority under 35 U.S.C. §§ 119 and 120	foreian priority under 35	U.S.C. § 119(a)-(d) or (t)	•
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for	1919-1 T		
a)□ All b)□ Some * c)□ Notice of.	hoon rece	ived.	
1 Certified copies of the phonty doc	numents have been rece	eived in Application No	·
2. Certified copies of the phonty do	Julijonio ilia	ave been received in this	National Stage
3 Copies of the certified copies of the	onal Bureau (PCT Rule	17.2(a)).	
* See the attached detailed Office death	domestic priority under	35 U.S.C. § 119(e) (to a P	10410101101
* See the attached detailed Office action f * Acknowledgment is made of a claim for a) The translation of the foreign language of a claim for	jage provisional applica	tion has been received.	121.
a) ☐ The translation of the foreign langu	domestic priority under	35 U.S.C. 99 120 una or	
Attachment(s)		Interview Summary (PTO-41 Notice of Informal Patent Ap	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449) Page 3	(J-340) F	Other:	Part of Paper No.

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 11 and the claims depending on claim 11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 11 recites in the first line a method claim yet depends on claim 9 drawn to structure. In addition in claim 11 and 26, the use of the term "can be" performing a function is not a positive limitation in any patentable sense. For examination purposes, claim 11 will be treated as a claim dependent on claim 9 and drawn to structure.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-3, 6-18, 21 and 22-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grego (4,762,414) in view of de Groot (5,600,441) and Cocito et al. (5,160,973).

Grego shows an interferometer comprising:

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a laser source (3) which produces an output having two superimposed othogonally polarized beams having S and P polarization, with a frequency difference between them;

means for splitting the polarized beams (5) into measurement and reference beams without altering the characteristics of the polarized beams;

means for causing the reference beams to interfere (43);

a reference photodetector (6) for detecting the reference beams and providing a reference signal;

means (8) for providing the measurement beam to strike an object at an oblique angle having a polarization coating (8), the oblique angle is such that the S polarization of the incident beam refracts through the glass plate, the P polarization reflects from the object;

means for causing the reflected S and P polarization beams to interfere (12); a measurement photodetector (9); means for measuring the distance between the surfaces (11).

Grego does not show the interferometer being applied to measure flying height.

De Groot shows an interferometer measuring the flying height where the distance between a glass plate and an opaque object is determined. At the time of the invention, one of ordinary skill in the art would have been motivated to modify Grego to measure the distance between a glass plate and an opaque object because de Groot shows that obtaining the distance (flying height) is desired in his apparatus. One of ordinary skill in

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Center located in CP4-4C23. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CP4 Fax Center number is (703)308-7722 or 308-7724.

If the Applicant wishes to send a Fax dealing with either a Proposed Amendment or for discussion for a phone interview then the fax should:

- a) Contain either the statement "DRAFT" or "PROPOSED AMENDMENT" on the Fax Cover Sheet; and
 - b) Should be unsigned by the attorney or agent.

This will ensure that it will not be entered into the case and will be forwarded to the examiner as quickly as possible.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew H. Lee whose telephone number is (703) 305-0538.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC receptionist whose telephone number is (703) 308-0956.

Andrew Lee Patent Examiner Art Unit 2877 March 25, 2002/ahl Frank Font **Supervisory Patent Examiner** Art Unit 2977

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